

Appln. No. 10/698,890
Amdt. dated October 5, 2004
Reply to the Office action dated April 12, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended): A sleeveless permanent magnet rotor subassembly having a longitudinal axis, first and second ends and at least two poles comprising:

~~an~~ a cylindrically shaped elongated member having an outer surface extending in the direction of said longitudinal axis, said cylindrically shaped member being formed of a non-magnetic material;

a plurality of permanent magnets extending in the direction of said longitudinal axis, said permanent magnets having sides tapered to a predetermined angle and a bottom surface;

a plurality of rotor poles having first and second ends extending in the direction of said longitudinal axis, said rotor poles having sides tapered to a predetermined angle and a bottom surface, said permanent magnets and rotor poles being positioned adjacent each other in a manner such that the tapered sides of said rotor poles are in contact with the tapered sides of adjacent magnets, the bottom surfaces of said rotor poles ~~and said magnets~~ being substantially in contact with the outer surface of said elongated member, the bottom surfaces of said magnets being the only portion thereof in contact with the outer surface of said elongated member; and

Appln. No. 10/698,890
Amdt. dated October 5, 2004
Reply to the Office action dated April 12, 2004

a first cap member positioned at said first end of said subassembly and adjacent a
said first end of said rotor poles in a manner to retain the rotor poles and the permanent
magnets to form an integral subassembly.

2. (originally presented) The subassembly of claim 1 wherein the taper angle of each
rotor pole is in the range between approximately 5 to 15 degrees.

3. (canceled)

4. (canceled)

5. (currently amended) The subassembly of claim 1 wherein said ~~end~~ first cap member is
directly fastened to said rotor poles, said rotor poles extending in a direction towards said
second subassembly end and terminating a distance therefrom.

6. (currently amended) The subassembly of claim 1 wherein said first end cap member is
shrink fitted onto said rotor poles at said first end of said subassembly and further
including a second cap member positioned at said second end of said subassembly, said
second cap member being shrink fitted onto said rotor poles at said subassembly second
end.

Appln. No. 10/698,890
Amdt. dated October 5, 2004
Reply to the Office action dated April 12, 2004

7. (canceled)

8. (currently amended) The subassembly of claim 1 wherein a plurality of ~~clamping rods~~
bolt members having first and second ends extend through said rotor poles and said first
cap member and said second cap member, said bolt members being secured in place by
fastener members.

9. (canceled)

10. (canceled)

11. (canceled)